

AMENDMENTS TO THE ABSTRACT:

Please replace the abstract with the following new abstract:

An energy consumption meter includes a first input for providing a first input signal derived from a voltage, a first analog-to-digital (A/D) converter electrically connected to the first input to generate a first output signal based on the first input signal, a second input for providing a second input signal derived from a current, a second A/D converter electrically connected to the second input to generate a second output signal based on the second input signal, a multiplier to combine signals corresponding to the first and second output signals, and a phase evaluation block having two inputs that are electrically connected to the first input and to the second input. The phase evaluation block measures a phase difference that corresponds to a phase difference between the first input signal and the second input signal. A phase correction block corrects for the phase difference in one of the first output signal and the second output signal.